Datasheet for ABIN6148276

anti-SOD3 antibody (AA 19-160)

4 Images

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Overview

Quantity:	100 µL
Target:	SOD3
Binding Specificity:	AA 19-160
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SOD3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 19-160 of human SOD3 (NP_003093.2).
Sequence:	WTGEDSAEPN SDSAEWIRDM YAKVTEIWQE VMQRRDDDGA LHAACQVQPS ATLDAAQPRV TGVVLFRQLA PRAKLDAFFA LEGFPTEPNS SSRAIHVHQF GDLSQGCEST GPHYNPLAVP HPQHPGDFGN FAVRDGSLWR YR
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	SOD3

Target Details

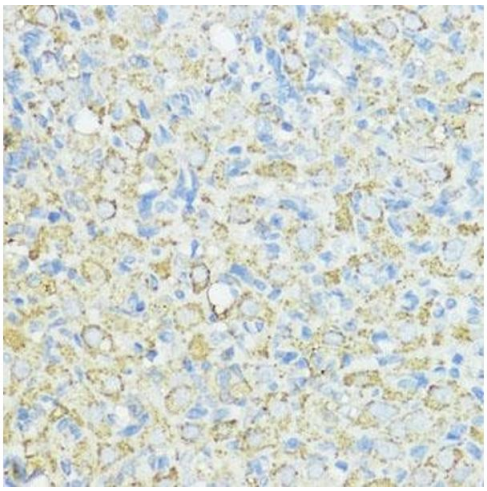
Alternative Name:	SOD3 (SOD3 Products)
Background:	This gene encodes a member of the superoxide dismutase (SOD) protein family. SODs are antioxidant enzymes that catalyze the conversion of superoxide radicals into hydrogen peroxide and oxygen, which may protect the brain, lungs, and other tissues from oxidative stress. Proteolytic processing of the encoded protein results in the formation of two distinct homotetramers that differ in their ability to interact with the extracellular matrix (ECM). Homotetramers consisting of the intact protein, or type C subunit, exhibit high affinity for heparin and are anchored to the ECM. Homotetramers consisting of a proteolytically cleaved form of the protein, or type A subunit, exhibit low affinity for heparin and do not interact with the ECM. A mutation in this gene may be associated with increased heart disease risk.,SOD3,EC-SOD,Cancer,Cell Biology & Developmental Biology,Endocrine & Metabolism,SOD3
Molecular Weight:	25 kDa
Gene ID:	6649
UniProt:	P08294

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

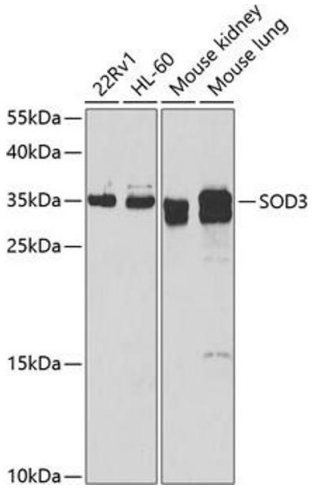
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



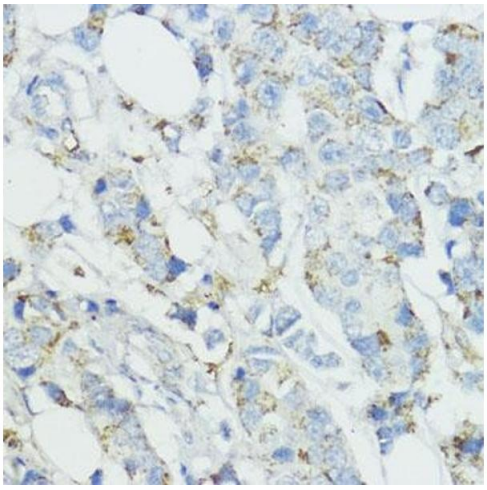
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human mammary cancer using SOD3 antibody (ABIN6128740, ABIN6148276, ABIN6148278 and ABIN6222746) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using SOD3 antibody (ABIN6128740, ABIN6148276, ABIN6148278 and ABIN6222746) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.



Western Blotting

Image 3. Western blot analysis of extracts of various cell lines, using SOD3 Rabbit pAb (ABIN6128740, ABIN6148276, ABIN6148278 and ABIN6222746) at 1:3000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 90s.

Please check the product details page for more images. Overall 4 images are available for ABIN6148276.